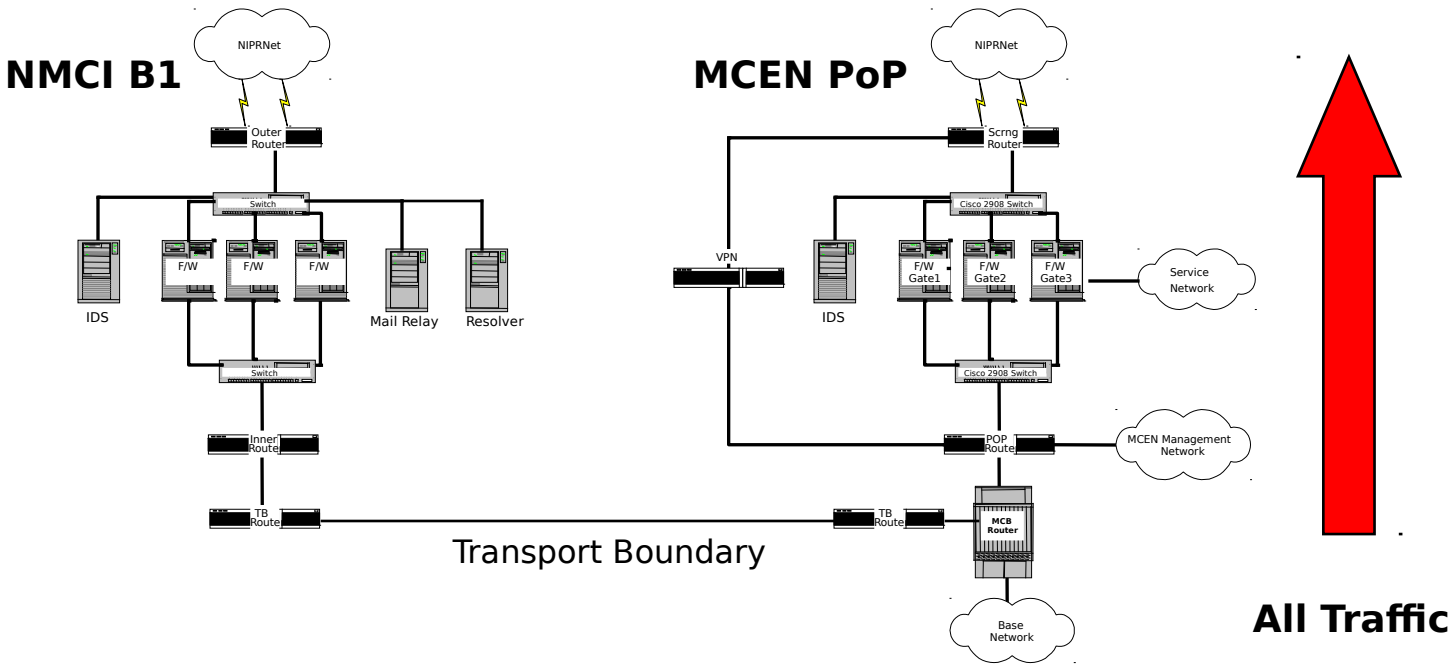
Network Transition
In
Preparation for NMCI Cutover
(Albany)

3 Nov 03

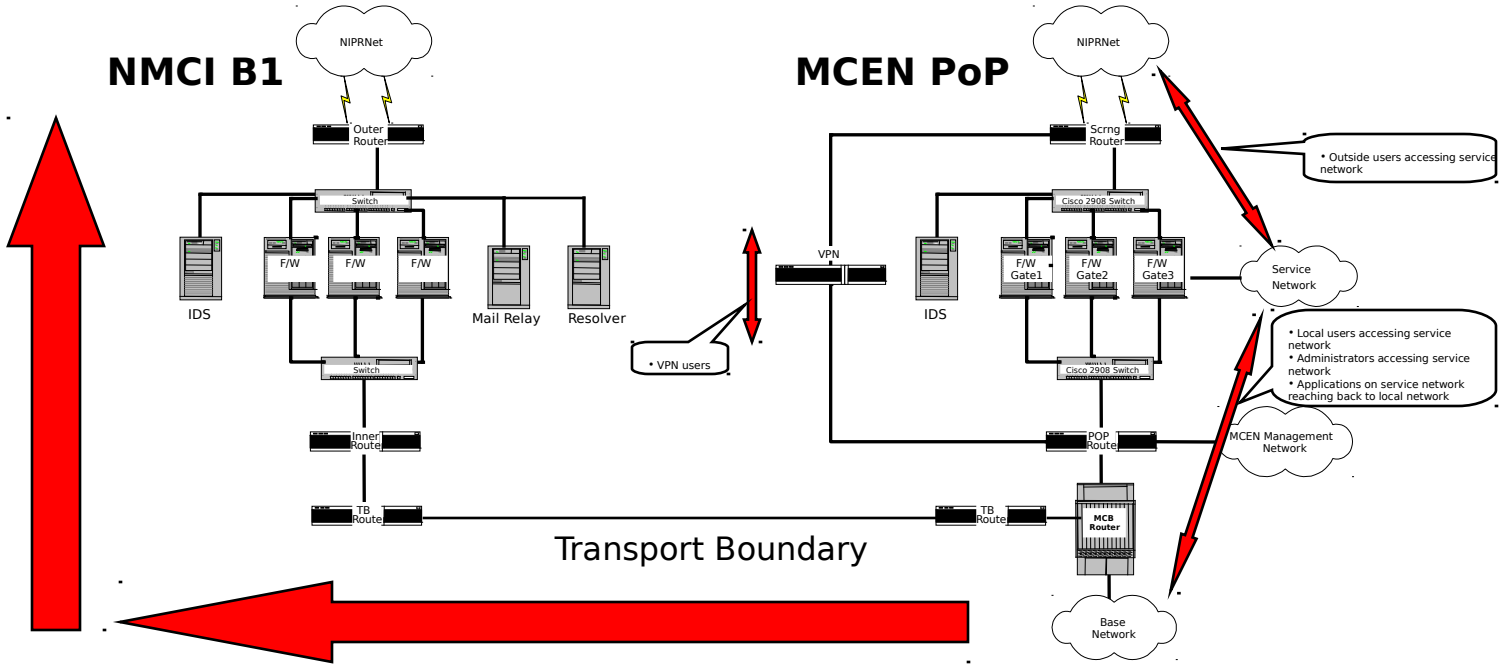
Outline

- Concept of Operations
- Reason for Network Transition
- Who will be Affected
- Overview of Transition Steps
- G-6 Role
- Testing
- Trouble Tickets
- Command and Control
- Approach During Transition
- Quantico Transition

Network Routing – Before Transition



Network Routing – After Transition



Default Route for <u>All</u> Traffic

Why Transition the Network?

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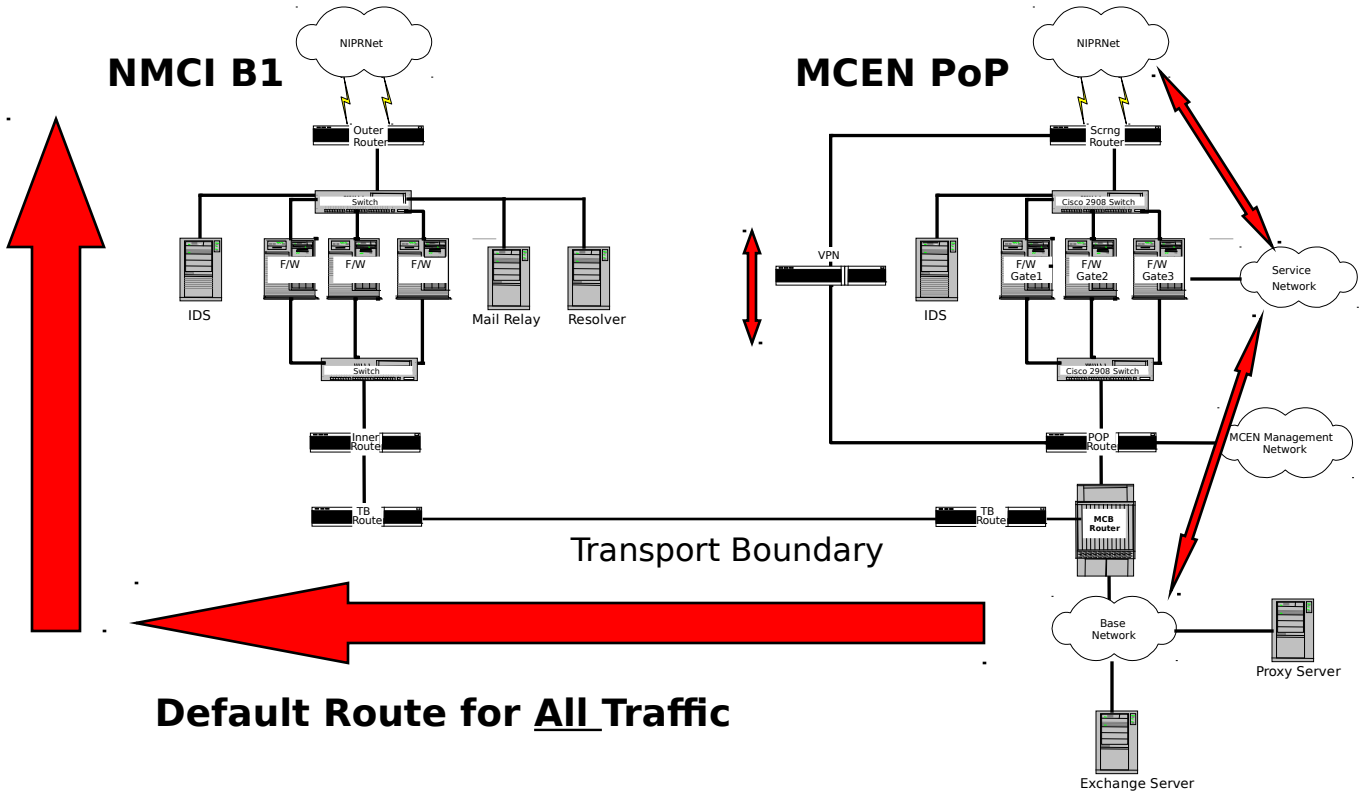
- Significantly reduces complexity of cutting over seats
  - PoP architecture
  - Impossibility of cutting over seats individually without changing routing first – change router configuration each time a seat is cut over
- Transition network in advance of cutting over seats
  - Permit testing
  - Allow building of accounts

Who Will be Affected?

- Networks – everyone behind PoP
  - 158.236.0.0, 255.255.0.0.
- DNS Domains – fourth level domains will be affected also
  - ALA.USMC.MIL
  - ALBANY.USMC.MIL
  - LOGCOM.USMC.MIL
  - MATCOM.USMC.MIL
- smtp Domains
  - ALBANY.USMC.MIL
  - ALA.USMC.MIL
  - LOGCOM.USMC.MIL
  - MATCOM.USMC.MIL
  - MCSC.USCM.MIL

Steps



- Routing
- Firewalls
- DNS
- IDS
- Messaging
- VPN's
- Web Proxy

G-6 Role

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- Sites not AOR'ed
  - DNS configurations
  - Changes to the IMS on all Exchange servers
  - Web proxy changes
  - Identify sysadmins for legacy applications
  - Coordination with owners, users of legacy applications
  - Testing – before, during and after
  - Report back to local Network Transition Command Cell
- AOR'ed sites
  - Identify sysadmins for legacy applications
  - Coordination with owners, users of legacy applications
  - Testing – before, during and after
  - Report back to local Network Transition Command Cell
  - EDS Base Ops responsible for all local changes

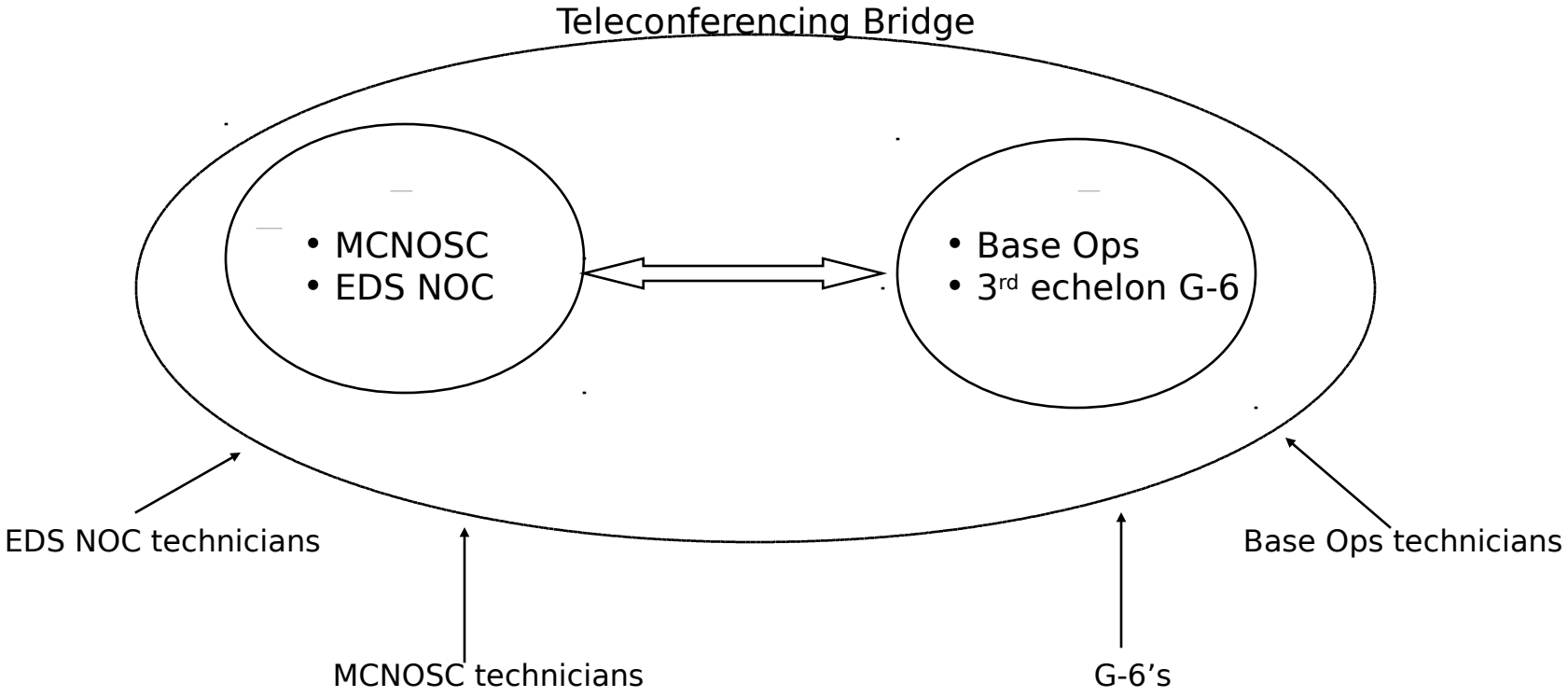
Testing

- Why – ensure successful network transition
- What
  - Internet access
  - 3270 access
  - Mail (test from outside also, if possible)
  - Access to legacy applications (test from outside also, if possible)
  - DMS
  - VPN
  - Other
- When
  - Before – 3 consecutive days leading up to the network transition (including working day of network transition)
  - During outage window
  - After – until network is considered stable
- How
  - Complete Network Services Test spreadsheet - return to 3rd echelon G-6
  - Before, after – report results to 3rd echelon G-6
  - During - report results of testing to Network Transition Command Cell

Trouble Tickets

- Exercise appropriate technical support hierarchy
  - AOR'ed users – first call to AOR Help Desk
  - Non-AOR'ed users – first call to supporting G-6
  - Cut over users – first call to NMCI Help Desk
- Tickets will be exchanged between EDS and Marine Corps technical support hierarchies, as required
- Focused assistance from MCNOSC, EDS immediately following transition
  - Same type of Quantico Command Cell as during outage

Command and Control



Approach During Transition

- EDS NOC complete routing changes
- Base Ops begins making their changes
- One designated G-6 begins testing
  - Complete troubleshooting for this unit before moving on
  - Spreadsheet used to track problems
- Remaining G-6's begin testing

Quantico Transition

- Timeline
- Problems encountered after the transition
- Corrective measures
  - Hot wash
  - Determining when network is considered stable
    - G-6's test network services
    - Base Ops evaluate trouble tickets
    - EDS NOC conducting testing
    - Daily morning meeting between EDS NOC, Base Ops, Base G-6, NMCI PM, MCNOSC
  - Event driven schedule